Names \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Stars and Constellations Webquest**

[**http://fchslibrary.wikispaces.com/Constellations**](http://fchslibrary.wikispaces.com/Constellations)

**Part I: Use the Part I links to websites and online database articles to answer each of the questions below.**

|  |  |
| --- | --- |
| **Resource #** | **Question** |
| 1 | Define “star.” |
| 2 | Define “constellation.” |
| 2 | True or False: The stars within a constellation are at similar distances from Earth and are close to each other. |
| 2 | Explain when by whom the constellations were named. |
| 2 | How many constellations are there? |
| 2 | What is the impact of the daily rotation of the Earth on its axis with regards to constellations? |
| 2 | What is the impact of the yearly rotation of the Earth around the Sun with regards to constellations? |
| 3 | The universe is expanding. What is the impact of this with regards to constellations? |
| 4 | True or False: Every point in the sky belongs to a constellation. |

**Part II: Select a constellation from the Part II Resources, and use those resources to answer the following questions.**

|  |
| --- |
| Name your constellation: |
| What are the brightest stars (luminaries) in your constellation? |
| What does the name of your constellation mean, and why was it named this? |
| At what time of the night and during which month is it best seen? |

**Part III: Stars have a life cycle. They can be divided up into stages of human life. Describe what happens to a star during the following stages using the Part III Resources.**

|  |  |
| --- | --- |
| **Stage** | **Description** |
| **The Pre-natal Stage: Nebula** |  |
| **A Star is Born: Protostar** |  |
| **Adulthood: Main Sequence Star** |  |
| **Crisis: Red Giant** |  |
| **Old Age: Planetary Nebula** |  |
| **Death: White Dwarf** |  |
| **Death: Neurton Star** |  |
| **Death: Black Hole** |  |
| **Graveyard: Black Dward** |  |

**Part IV: Select three stars from the constellation you explored in Part II, and use the Part IV Resources to complete the chart below.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Star Name** | **Temperature** | **Constellation** | **Color (Spectra)** | **Stage of Life** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |